

CLAIMS

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1. A method for three-dimensional printing of a three-dimensional model,
5 said method comprising:
selectively dispensing a first interface material and a second
interface material from a printing head, said first interface material and
said second interface material being different;
each of said first interface material and said second
interface material comprising photopolymer materials.
- 10 2. A method according to claim 1, wherein one of said first interface material
and second interface material includes reactive acrylates and is curable by
the application of radiation.
- 15 3. A method according to claim 1, comprising ejecting said first interface
material and said second interface material in a given layer in different mix
formulations to form a specified type of material.
4. A method according to claim 1, comprising curing said first and second
interface materials using radiation, said radiation being any one of a group
including ultra-violet radiation, infra-red radiation and E-beam.
- 20 5. A method according to claim 3, wherein said mix formulation of first
interface material and second interface material forms a model layer.
6. A method according to claim 3, wherein said mix formulation of first
interface material and second interface material forms a support layer.

7. A method according to claim 3, wherein said mix formulation of first interface material and second interface material forms a release layer.

8. A system for three-dimensional printing of a three-dimensional model, said system comprising:

5 a printing head for selectively dispensing a first interface material and a second interface material, said first interface material and said second interface material being different;

each of said first interface material and said second interface material comprising photopolymer materials; and

10 a source of radiation for curing of at least one of said interface materials.

9. A system according to claim 8, wherein one of said first interface material and second interface material includes reactive acrylates.

10. A system according to claim 8, wherein said printing head is an ink-jet printing head.

15 11. A system according to claim 8, wherein said second interface material is curable.

12. A system according to claim 8, wherein said first interface material and said second interface material are ejected in a given layer in different mix 20 formulations to form different types of materials.

13. A system according to claim 8, wherein said radiation is any one of a group including ultra-violet radiation, infra-red radiation and E-beam.

14. A system according to claim 12, wherein said mix formulation of first interface material and second interface material forms a model layer.
15. A system according to claim 12, wherein said mix formulation of first interface material and second interface material forms a support layer.
- 5 16. A system according to claim 12, wherein said mix formulation of first interface material and second interface material forms a release layer.